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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/531,506	10/03/2005	Mao-Hsiung Yen	U 015722-1	8980
140	7590	01/28/2009		
LADAS & PARRY LLP 26 WEST 61ST STREET NEW YORK, NY 10023			EXAMINER PESELEV, ELLI	
			ART UNIT 1623	PAPER NUMBER
			MAIL DATE 01/28/2009	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary**Application No.**

10/531,506

Applicant(s)

YEN ET AL.

Examiner

Ellie Peselev

Art Unit

1623

Period for Reply -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 03 November 2008.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1, 4-6, 8-15, 18, 31-33, 35, 37-40, 44-47 and 51-60 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1, 4-6, 8-15, 18, 31-33, 35, 37-40, 44-47 and 51-60 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on November 3, 2008 has been entered.

Claims 1 4-6, 8-15, 18, 31-33, 35, 37-40, 44-47 and 51-60 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

A conclusion of lack of enablement means that, based on the evidence regarding each of the factors below, the specification, at the time the application was filed, would not have taught one skilled in the art how to make and/or use the full scope of the invention without undue experimentation.

(A) The breadth of the claims.

Claims 1, 4-13 and 33 encompass an enormous number of compounds having great variations in structural formulas. For example, a compound of formula (I) as encompassed by claim 1 wherein R₁, R₂ and R₃ is H and X₂ and X₃ are phenyls would not be expected to have the same properties and activity as a compound of formula (I) wherein R₁, R₂ and R₃ are sulfate, X₂ benzyl substituted with N-alkenyl and X₃ is cyclohexyl.

The methods claims 14, 15, 18, 31, 32, 35, 37-40, 44-47 and 51-54 and 58-60 encompass treatment of enormous number of unrelated diseases, while the specification fails to provide any evidence of the treatment of even a single disease. For example the terminology "organ damage" encompasses the treatment of all possible diseases of any organ in the body including lungs, heart, liver, stomach, reproductive organs etc.

(B) The level of predictability in the art.

The activity of various flavones is unpredictable. For, example, Lee et al (WO 01/30342) disclose in Example 2 that of the eight flavone compounds tested, only oroxylin A inhibited LPS- induced COX-2 gene expression in both protein and mRNA levels.

(C) The existence of working examples.

The working example to the in vitro effect of baicalein on plasma THF-alpha, superoxide anion, nitrate and iNOS. However, there is no correlation between the levels of THF-alpha, superoxide anion, plasma nitrate and iNOS in the treatment of any diseases. Further, the present claims are not directed to baicalein. Therefore, there are no working examples showing any activity of the claimed compounds.

(D) The quantity of experimentation needed to make or use the invention based on the content of the disclosure.

Because there is no way to predict a priori which specific compounds encompassed by the present claims will be useful for treating which specific disease or

condition, it would take an enormous amount of experimentation to determine the effectiveness of the claimed compounds and methods.

Claims 1, 4-6, 8-10, 12-15, 18, 31-33, 35, 37-40, 44-45 and 53-60 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

The terminology "R1 and R2 are each independently Y" (claim 1), "R1 and R2 together become a methylene unit (CH₂)" (claims 1 and 55) and "R2 and R3 together become a methylene unit (CH₂)" (claim 1), "R7 and R9 together becomes a methylene unit (CH₂)" (claim 31), "R8 and R9 together become a methylene unit (CH₂)" (claim 31) and "R1 and R2 jointly form a methylene group" (claim 60) is not disclosed in the specification as originally filed.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and

the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1, 4-6 and 8-13 are rejected under 35 U.S.C. 102(b) as being anticipated by Cassels et al (U.S. Patent No. 5,756,538).

Cassels et al disclose the claimed compounds wherein R1, R2, and R3 are each independently H, alkyl, alkenyl or a carbohydrate, X1 is aryl or substituted aryl and X2 is X3-T and X3-T. (column 1, lines 45-63).

Claims 1, 4-6 and 8-13 are rejected under 35 U.S.C. 102(a) as being anticipated by Hendler et al (U.S. Patent No. 6,541,613).

Handler et al disclose the claimed compounds wherein R1, R2 and R3 are each independently H, alkyl or carbohydrate, X1 is X3-T, wherein X3 is H and T is H and X2 is aryl.(column 10).

Claims 1 4-6 and 8-13 are rejected under 35 U.S.C. 102(b) as being anticipated by Lee et al (WO 01/30342).

Lee et al disclose the claimed compounds wherein R1 and R3 are each independently H, alkyl, alkenyl, alkynyl, R2 is alkyl, alkenyl and alkynyl, X1 and X2 are independently phenyl or substituted phenyl (pages 15-16)

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Elli Peselev whose telephone number is (571) 272-0659. The examiner can normally be reached on 8.00-4.30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Shaojia Jiang can be reached on (571) 272-0627. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Elli Peselev
/Elli Peselev/
Primary Examiner, Art Unit 1623